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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,689	12/10/2004	Nora Brambilla	DE 020157	3098
24737	7590	02/22/2006	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			LE, TUNG X	
			ART UNIT	PAPER NUMBER
			2821	

DATE MAILED: 02/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/517,689	Applicant(s) BRAMBILLA ET AL.	
	Examiner Tung X. Le	Art Unit 2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

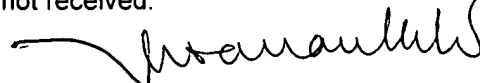
Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 December 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.



Hoanganh Le
Primary Examiner

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>08/24/2005</u> ; <u>12/10/2004</u> . TXL | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1 and 14, the phrase "more particularly" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Objections

4. Claim 5 is objected to because of the following informalities:

In claim 5, line 5, "and" after "the edge," should be deleted.

In claim 5, line 7, -- and -- should be inserted after "end face,".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Ito et al. (U.S. 2001/0015701 A1).

With respect to claim 1, Ito discloses in figure 1A an antenna having a dielectric substrate [2] and two resonant printed wiring structures [11,12], for using in high-frequency and microwave range (see paragraph [0090]), a first printed wiring structure [11] being arranged on one end face of the substrate [2] along a first edge and a second printed wiring structure [12] on an opposite, second edge of the same end face (see figures 1A and 1B).

With respect to claim 2, Ito discloses that the second printed wiring structure [12] being equal to the first printed wiring structure [11] as regards shape and size (see figure 1B).

With respect to claim 3, Ito discloses that the substrate [2] being in essence rectangular (figure 1A) having two larger end faces (top and bottom sides) and four smaller end faces [2b,2c,2d,2e] and in that the first and second printed structures [11,12] being deposited on a first end face and stretch out from a first to a second, opposite side face along the edge (see figure 1B).

With respect to claim 4, Ito discloses that the first and second printed wiring structures [11,12] have the form of a rectangular face (see figure 1B).

With respect to claim 5, Ito discloses in figure 11 that each printed wiring structures [20,21] is subdivided into three printed wires where a first printed wire [11,12] stretches out from the first to the second side face along the edge, a second printed wire [11',12'] stretches out from the second to the first end face, and a third printed wire

[11a,11a',12a,12a'] being connected to the first printed wire [11,12] and the first printed wire being connected to the second printed wire [11',12'] (see paragraphs [0095,0102]).

With respect to claim 6, Ito discloses that a fourth printed wire [12b'] is connected to the second printed wire [12'] (see figure 11).

With respect to claims 7-8, Ito discloses that the first and second printed wires [11',11 or 12,12'] are equally long; and the third and fourth printed wires are equally long (see figure 11).

With respect to claim 9, Ito discloses that the first and second printed wires are longer than the third and fourth printed wires (see figure 11).

With respect to claim 10, Ito discloses that the fourth printed wire [12b'] runs along an edge of the first end face (see figure 11).

With respect to claim 11, Ito discloses that the first and third printed wires are arranged perpendicular to the second and fourth printed wires (see figure 11).

With respect to claim 12, Ito discloses in figure 1B that the second printed wiring structures [12] are mirrored on the first end face [11].

With respect to claim 13, Ito discloses that a printed wiring board 45 on which an antenna as defined is arranged (see figure 22).

With respect to claim 14, Ito discloses a radio communication device using for the GPS, DCS/PCS, UMTS and Bluetooth domain characterized by an antenna (see page 1, paragraph [0002]).

Citation of Relevant Prior Art

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kawahata (U.S. 5,748,149) discloses a surface mounting antenna and antenna apparatus;

Ying (U.S. 6,166,694) discloses a printed twin spiral dual band antenna;

Egorow et al. (U.S. 2001/0050643 A1) discloses a small size broad band printed antenna with parasitic element;

Miyata et al. (U.S. 6,950,072 B2) discloses a surface mount antenna, antenna device using the same, and communication device;

Hilgers (U.S. 2004/0130495 A1) discloses a miniaturized microwave antenna; and

Ghosh et al. (U.S. 2004/0119648 A1) discloses a multiband microwave antenna.

Inquiry

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung X. Le whose telephone number is 571-272-6010.

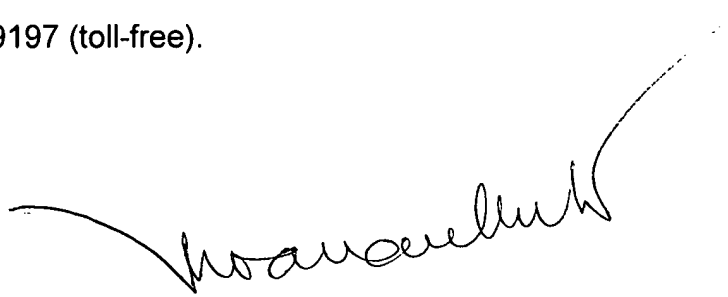
The examiner can normally be reached on 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2821

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner
Tung Le
AU 2821

A handwritten signature in black ink, appearing to read 'Hoanganh Le', written in a cursive style.

Hoanganh Le
Primary Examiner